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PATENT APPLICATION
Serial No.: 10/623,638
DOCKET NO. P17370US2

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently amended): A method for integrating a Wireless Local Area Network (WLAN) and a Wireless Wide Area Network (WWAN), the method comprising steps of:

~~sending a Service Request message from a terminal to an Access Point (AP);~~

~~starting a WLAN access procedure between the terminal and the AP;~~

~~sending~~ receiving at a WLAN Serving Node (WSN) a Remote Authentication Dial-In User Service (RADIUS) Request message from ~~the AP to a WLAN Serving Node (WSN)~~ an Access Point (AP), the RADIUS Request message including ~~terminal's~~ credentials of a terminal;

~~proxying at a RADIUS proxy capability of the WSN the RADIUS Request message;~~

~~authenticating the terminal at the WSN using the terminal's credentials;~~
~~and~~

~~managing at the WSN access control for the terminal~~ charging operations for the terminal.

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Claim 2 (Original): The method of claim 1, wherein the method further comprises steps of:

locating in the WWAN a Home-Authentication, Authorization, and Accounting (Home-AAA) server;

sending a RADIUS Request message from the WSN to H-AAA, the RADIUS Request message including the terminal's credentials;

authenticating the terminal at the Home-AAA; and

sending from the Home-AAA to the WSN a RADIUS Request message, the RADIUS Request message including a key information.

Claim 3 (Original): The method of claim 2, wherein the method further comprises steps of:

receiving the key information at the WSN; and

sending from the WSN to the AP a RADIUS Accept Response message, the RADIUS Accept Response message including a key information.

Claim 4 (Original): The method of claim 3, wherein the step of receiving comprises a step of generating a key at the WSN for encrypting and decrypting traffic of packet data between the WSN and the terminal.

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Claim 5 (Original): The method of claim 1, wherein the step of starting further comprises steps of:

 sending from the AP to the terminal an Extensible Authentication Protocol (EAP) Request message; and
 receiving at the AP an EAP Response from the terminal.

Claim 6 (Original): The method of claim 5, wherein the step of receiving further comprises steps of:

 granting access to the WLAN to the terminal; and
 sending an EAP Success message from the AP to the terminal.

Claim 7 (Original): The method of claim 1, wherein the step of managing further comprises steps of:

 starting counters in the WSN; and
 sending accounting information from the WSN to the Home-AAA.

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Claim 8 (Currently amended): A Wireless Local Area Network Serving Node (WSN) for authenticating a terminal, the WSN ~~being capable of~~ for performing the following method:

receiving a Remote Authentication Dial-In User Service (RADIUS) Request message from an Access Point (AP), the RADIUS Request message including terminal's credentials;

proxying the RADIUS Request message at a RADIUS proxy capability;
authenticating the terminal using the terminal's credentials; and
managing charging operations for the terminal.

Claim 9 (Original): The WSN of claim 8, wherein the WSN is further capable of:

locating in the WWAN Home-Authentication, Authorization, and Accounting (Home-AAA) server; and

sending to the Home-AAA a RADIUS Request message, the RADIUS Request message including the terminal's credentials.

Claim 10 (Original): The WSN of claim 8, wherein the WSN is further capable of receiving from the Home-AAA a RADIUS Response message, the RADIUS Response message including a key information.

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Claim 11 (Original): The WSN of claim 10, wherein the WSN is further capable of using the key information for generating a key for encrypting and decrypting traffic of packet data between the WSN and the terminal.

Claim 12 (Original): The WSN of claim 8, wherein the WSN is further capable of:

 sending a RADIUS Response message to the AP, the RADIUS Response message, the RADIUS Response message including key information.

Claim 13 (Original): The WSN of claim 8, wherein the WSN is further capable of:

 starting counters for accounting; and
 sending accounting information to the H-AAA.